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                 New UPM (Update Code Maximum) field for more efficient patent
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         May 27
                 SDIs in CAplus
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                 CAplus super roles and document types searchable in REGISTRY
         Jun 28
NEWS
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                 and WATER from CSA now available on STN(R)
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         Jul 12
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                 resulting in a closer connection to BABS
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         Jul 30
                 BEILSTEIN on STN workshop to be held August 24 in conjunction
                 with the 228th ACS National Meeting
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                 IFIPAT/IFIUDB/IFICDB reloaded with new search and display
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         AUG 02
                 CAplus and CA patent records enhanced with European and Japan
                 Patent Office Classifications
                 STN User Update to be held August 22 in conjunction with the
         AUG 02
NEWS 13
                 228th ACS National Meeting
NEWS 14
                 The Analysis Edition of STN Express with Discover!
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              AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s taxane or taxol

1971 TAXANE

2191 TAXANES

3040 TAXANE

(TAXANE OR TAXANES)

6362 TAXOL

38 TAXOLS

6365 TAXOL

(TAXOL OR TAXOLS)

L1 8488 TAXANE OR TAXOL

=> s l1 and isolat?

997520 ISOLAT?

L2 1008 L1 AND ISOLAT?

=> s 12 and (polyethyleneimine-bonded silica or PBS)

3166 POLYETHYLENEIMINE

154 POLYETHYLENEIMINES

3224 POLYETHYLENEIMINE

(POLYETHYLENEIMINE OR POLYETHYLENEIMINES)

156131 BONDED

1 BONDEDS

156131 BONDED

(BONDED OR BONDEDS)

442280 SILICA

3362 SILICAS

442634 SILICA

(SILICA OR SILICAS)

0 POLYETHYLENEIMINE-BONDED SILICA

(POLYETHYLENEIMINE (W) BONDED (W) SILICA)

13763 PBS

5 PBSES

13768 PBS

(PBS OR PBSES)

L3 0 L2 AND (POLYETHYLENEIMINE-BONDED SILICA OR PBS)

=> s 12 and resin

540080 RESIN 366357 RESINS 665707 RESIN

(RESIN OR RESINS)

L4 10 L2 AND RESIN

=> s 12 and PBS

13763 PBS

5 PBSES 13768 PBS

(PBS OR PBSES)

L5 0 L2 AND PBS

=> d l4 ibib hitstr abs 1-10

L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:539962 CAPLUS

DOCUMENT NUMBER:

141:85774

TITLE:

Extractive process for the isolation and

purification of paclitaxel from Taxus species

INVENTOR(S):

Bui-Khac, Trung; Potier, Michel

PATENT ASSIGNEE(S):

Chaichem Pharmaceuticals International, Can.

SOURCE:

U.S., 16 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6759539	B1	20040706	US 2003-375474	20030227
PRIORITY APPLN. INFO.:			US 2003-375474	20030227

AB A process for isolating and purifying paclitaxel from a natural resource of taxanes (e.g., Taxus brownii) comprises: (a) washing a raw material comprising paclitaxel with water in order to remove soluble impurities from the raw material; (b) extracting with an organic solvent a wet

material comprising paclitaxel; (c) contacting the wet raw material with a salt to obtain a biomass by precipitation, **isolation**, and drying; (d) removing **resin** and natural pigments from the dried biomass by dissolving the biomass in acetone or an acetone-hexane mixture, and adding at least one polar solvent until a paclitaxel-enriched oil phase is obtained; and (e) chromatog. purifying the paclitaxel-enriched oil phase in a volatile solvent to obtain a purified solution, followed by

crystallization

REFERENCE COUNT:

THERE ARE 68 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:552358 CAPLUS

DOCUMENT NUMBER:

137:78011

TITLE:

Process for extracting taxol from culture

filtrate of Taxus cell

INVENTOR (S):

Wang, Guoliang; Luo, Xuelan; Xie, Weiquan; Huang,

Qiaoming; Hou, Songsheng

PATENT ASSIGNEE(S): SOURCE:

Meiyan Bio-Engineering Inst., Peop. Rep. China Faming Zhuanli Shenqing Gongkai Shuomingshu, 7 pp.

CODEN: CNXXEV

DOCUMENT TYPE: LANGUAGE:

Patent Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
CN 1305999	Α	20010801	CN 2001-107410	7	20010103
PRIORITY APPLN. INFO.:			CN 2001-107410		20010103
AD The second of second		الأحجيج المحادث والمحم		2 2 2	J _ E

AB The process comprises adsorbing taxol-containing culture liquid of Taxus cell with adsorbent (such as macroporous resin S-8, Ab-8, X-5, XAD-4, D4020, NKA-9, or LD605) at pH 5.5-6.5 and eluting with methanol or ethanol.

L4 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:526064 CAPLUS

DOCUMENT NUMBER:

135:111949

TITLE:

Production of taxol and taxanes Chang, Ching-Jer; Tong, Xiao-Jie Purdue Research Foundation, USA

PATENT ASSIGNEE(S): SOURCE:

INVENTOR (S):

PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

'. 1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.					KIND DATE			APPLICATION NO.						DATE			
	WO	2001	0514	 76				20010719 WO 2001-US78						2	20010110			
	WO	2001	0514	76		<b>A3</b>		2002	0117									
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB	, BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
			CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	, FI,	GB,	GD,	GE,	GH,	GM,	HR,
			HU,	ID,	IL,	IN,	IS,	JΡ,	KΕ,	KG,	KP	, KR,	KZ,	LC,	LK,	LR,	LS,	LT,
												, MZ,						
			SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR	, TT,	TZ,	UA,	UG,	US,	UZ,	VN,
			YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD	, RU,	TJ,	TM			•	•
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ	, TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
			DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	, LU,	MC,	NL,	PT,	SE,	TR,	BF,
			ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML	, MR,	NE,	SN,	TD,	TG		
	ΕP	1254	128			A2		2002	1106		EP 2	2001-	9019	50		2	0010	110
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	MC,	PT,
			IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	, TR						
	JP	2003	5195	04		T2		2003	0624		JP 2	2001-	5518	58		2	0010	110
	US	2003	0138	99		A1		2003	0116	i	US 2	2002-	1936	64		2	0020	710
PRIO	RITY	APP.	LN.	INFO	. :					1	US 2	2000-	1758	37P		P 2	0000	113
										1	WO 2	2001-1	US78	6	1	W 2	0010	110
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AB A high yield, economical process for purifying taxanes from yew biomass is disclosed. The process does not require initial liquid:liquid portioning of the crude extract to sep. highly polar substances. The organic solvent extract of the biomass is adsorbed onto and selectively desorbed from an adsorption resin to provide a taxane enriched eluate. Substantially pure individual taxanes may be further isolated from the eluate by hydrophobic-interaction chromatog. Methanol extract of Yew biomas obtained from 500 g Taxus media and enriched

in taxol/cephalomannine was chromatographed on a styrene/divinyl benzene copolymer and fractions containing cephalomannine, taxol, &-epi-taxol, and 10-deacetyltaxol were collected. The taxol containing fraction was further purified by crystallization from a hexane/acetone solution to yield 65 mg of 99.8% pure taxol.

ANSWER 4 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:911236 CAPLUS

DOCUMENT NUMBER:

134:61514

TITLE:

Process for extraction and purification of paclitaxel

from natural sources

INVENTOR(S):

Bui-Khac, Trung; Dupuis, Nicolas

PATENT ASSIGNEE(S):

Chaichem Pharmaceuticals International, Can.

SOURCE:

PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

chromatog.

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.						KIND DATE				APPLICATION NO.						DATE			
									0001228 WO 2000-CA619					9	20000525					
	WO	20000	07874	41		A3	:	2001	0517											
		W:	ΑE,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG	, BR,	BY,	CH,	CN,	CR,	CU,	CZ,		
			DE,	DK,	DM,	EE,	ES,	FI,	GB,	GD,	GE	, GH,	GM,	HR,	HU,	ID,	IL,	IN,		
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		2003							0121			2001-5				_	0000			
		2191							0916			2001-3					0000			
		64520							0910											
						БІ	•	2002	0917		US 2000-580362 CA 1999-2275980									
PRIOR	TTY	APP	LIN .	INFO	. :															
										CA 2000-2299149 WO 2000-CA619										
ΛR	71		~~ £.	<b>-</b> 1					a			2000-0								

A process for the extraction and purification of paclitaxel from a natural source of

taxanes is described.. This process comprises the following steps: extraction with an organic solvent, a raw material comprising paclitaxel from the natural source of taxanes; treatment of the raw material with a base or an acid to obtain a biomass by precipitation, isolation of the biomass and drying; percolorizing the isolated biomass by removing resin and natural pigments present, dissolving the biomass in acetone and then adding at least 1 non-polar solvent until a paclitaxel-enriched oily phase is obtained; treatment with a base or an acid the biomass contained in the paclitaxel-enriched oily phase recovered in the preceding step to obtain another biomass by precipitation, isolation of the other biomass and drying it; chromatog, purifying at least once a solution of the isolated other biomass obtained in the preceding step in a volatile solvent, and crystallizing the purified solution obtained by

This process comprises a limited number of steps and allows, after filtration and drying, to obtain a mixture of paclitaxel crystals consisting of about 53% of crystals having a purity >99%, about 22% of crystals having a purity >98%, and about 23% of crystals having a purity >92%.

L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:788353 CAPLUS

DOCUMENT NUMBER:

132:2818

TITLE:

Fluidized resin apparatus and technology for

recovering taxol

INVENTOR(S):

Yuan, Yingjin; Zhao, Lingyun; Yang, Jun; Hu, Guowu;

Miao, Zhiqi; Wu, Songhai

PATENT ASSIGNEE(S):

Tianjin Univ., Peop. Rep. China

SOURCE:

Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.

CODEN: CNXXEV

DOCUMENT TYPE:

Patent

LANGUAGE:

Chinese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	CN 1166488	Α	19971203	CN 1997-104453	19970606
PRIC	RITY APPLN. INFO.:			CN 1997-104453	19970606
AB	Taxol in Taxus cult	ure bro	oth or cell	extract is <b>isolated</b>	
	har tha 632.22		. 1		

Taxol in Taxus culture broth or cell extract is isolated by the fluidized resin method and apparatus. The apparatus consists of storing pot, pump, resin exchange column, force pump, and separator pot. The separator pot is connected with resin exchange column at both ends, and one lower end of the resin exchange column with pump, and another lower end with force pump. The resin is selected from strongly anionic ion exchangers or a mixture of anionic and cationic ion exchangers. It is kept as a fluid state to maximize the purification. The pH of material solution is regulated to 1-6 with acetic acid, HCl, or other non-oxidative acid.

L4 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:670144 CAPLUS

DOCUMENT NUMBER:

131:291260

TITLE:

Isolation and purification of paclitaxel and

other related taxanes by industrial

preparative low pressure chromatography on a polymeric

resin column

INVENTOR(S):

Liu, Jian

PATENT ASSIGNEE(S):

508037 (NB) Inc., Can.

SOURCE:

U.S., 6 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

			•			
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
US 5969165	Α	19991019	US 1999-226192	19990107		
EP 1018510	A1	20000712	EP 1999-126036	19991227		
EP 1018510	B1	20040303				
R: AT, BE, CH,	DE, DK	, ES, FR,	GB, GR, IT, LI, LU, NL,	SE, MC, PT,		
IE, SI, LT,	LV, FI	, RO				
AT 260908	E	20040315	AT 1999-126036	19991227		
NO 200000070	Α	20000710	NO 2000-70	20000106		

JP 2000204090	A2	20000725	JP 2000-798		20000106
IN 186600	Α	20011006	IN 2000-CA7		20000106
RU 2201788	C2	20030410	RU 2000-100420		20000106
ZA 200000036	Α	20000712	ZA 2000-36		20000107
CN 1266059	Α	20000913	CN 2000-102118		20000107
NZ 502204	. A	20010629	NZ 2000-502204		20000107
BR 200000884	A	20010821	BR 2000-884		20000107
SG 87072	A1	20020319	SG 2000-86		20000107
AU 768026	B2	20031127	AU 2000-10145		20000107
PRIORITY APPLN. INFO.:			US 1999-226192	Α	19990107
	-				

AB The present invention relates to a high yield and high purity method for obtaining taxane analogs from a source containing taxanes.

The method employs a polymeric resin membrane for separating the analogs under low pressure without the use of complex and expensive separation/purification steps currently provided in the art. Approx. 200 kg of dried needles and twigs of Taxus canadensis were extracted with 1000 L of methanol at 60° in an industrial multi-functional extractor for 5 h and then filtered. The raw materials were extracted with 700 L methanol at 55-60° for another 4 h and filtered. The filtrate was combined and mixed with 10 kg of activated carbon (5 %) and kept at room temperature for 1 h,

then filtered to remove the activated carbon. The filtrate was then concentrated to .apprx.100 L under vacuum, then 300 L of water:dichloromethane (1:1) was added. The organic layer was collected and the aqueous solution was extracted

two more times with 200 L of dichloromethane. The dichloromethane solution was combined and evaporated under vacuum to become a slurry form, then diluted with 20 L of acetone. The acetone solution was coated onto 20 Kg of Celite 545 and the coated material was air dried, then loaded onto the top of three low pressure industrial chromatog. columns. Each column was packed with 15 kg alumina to absorb flavonoids and lignans which were co-extracted from the source material. The columns were eluted with the solvent system hexane:acetone (start 100:0 and end at 45:55) at 10-15 psi with a flow rate at .apprx.150 mL/min. The fractions containing taxanes were collected and combined according to TLC results, and were then concentrated under vacuum to remove all solvents. The resulting material was dissolved in methanol and kept at room temperature overnight to yield needle-like crystals. The crystals were filtered and recrystd. from acetone to further yield white needle-like crystals identified as 13-acetyl-9-dihydrobaccatin III, having a purity of greater than 96% yield

(148 g) (0.074% based on the raw material).

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:642705 CAPLUS

DOCUMENT NUMBER: 130:25196

AUTHOR (S):

TITLE: Solid and Solution Phase Synthesis and Biological

Evaluation of Combinatorial Sarcodictyin Libraries Nicolaou, K. C.; Winssinger, N.; Vourloumis, D.;

Ohshima, T.; Kim, S.; Pfefferkorn, J.; Xu, J.-Y.; Li,

Т.

CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for

Chemical Biology, The Scripps Research Institute, La

Jolla, CA, 92037, USA

SOURCE: Journal of the American Chemical Society (1998),

120(42), 10814-10826

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE:

English

Isolated from certain species of soft corals, the sarcodictyins, eleutherobin, and eleuthosides have become important synthetic targets due the their novel mol. architectures, important biol. activities, and potential in medicine. Of particular interest is their Taxol -like mechanism of action involving disturbance of the tubulin-microtubule interplay resulting in tumor cell death. Their scarcity and biol. profile prompted us to initiate a program directed at exploring their chemical synthesis and chemical biol. Herein we report (a) the first total synthesis of sarcodictyins A and B by a combination of solution and solid-phase methods through the attachment of the common precursors on solid support, thus generating conjugates, followed by standard chemical manipulations; (b) the construction of a combinatorial library of sarcodictyins by solution and solid-phase chemical modifying the C-8 ester, C-15 ester, and C-4 ketal functionalities, and, therefore, producing analogs; (c) the tubulin polymerization properties of all members of the library; and (d) the cytotoxic actions of a selected number of these compds. against a number of tumor cells including Taxol-resistant lines. Several of the synthesized analogs were identified to be of equal or superior biol. activities as compared to the natural products, setting the stage for further developments in the field of cancer chemotherapy. 36

REFERENCE COUNT:

THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 8 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:330310 CAPLUS

DOCUMENT NUMBER:

127:4950

TITLE:

Synthesis of epothilones A and B in solid and solution

phase

AUTHOR (S):

Nicolaou, K. C.; Winssinger, N.; Pastor, J.; Ninkovic,

S.; Sarabia, F.; He, Y.; Vourloumis, D.; Yang, Z.; Li,

T.; Giannakakou, P.; Hamel, E.

CORPORATE SOURCE:

Dep. Chemistry, Skaggs Inst. Chem. Biology, Scripps

Res. Inst., La Jolla, CA, 92037, USA

SOURCE:

Nature (London) (1997), 387(6630), 268-272

CODEN: NATUAS; ISSN: 0028-0836

PUBLISHER:

Macmillan Magazines

DOCUMENT TYPE:

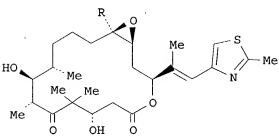
Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 127:4950



Ι

Epothilones A (I; R = H) and B (I: R = Me), two compds. that were recently AΒ isolated from myxobacterium Sorangium cellulosum strain 90, have

generated intense interest among chemists, biologists and clinicians owing to the structural complexity, unusual mechanism of interaction with microtubules and anticancer potential of these mols. Like taxol, they exhibit cytotoxicity against tumor cells by inducing microtubule assembly and stabilization, even in taxol-resistant cell lines. Following the structural elucidation of these mols. by X-ray crystallog. in 1996, several synthesis of epothilones A and B have been reported, indicative of the potential importance of these mols. in the cancer field. Here we report the first solid-phase synthesis of epothilone A, the total synthesis of epothilone B, and the generation of a small epothilone library. The solid-phase synthesis applied here to epothilone A could open up new possibilities in natural-product synthesis and, together with solution-phase synthesis of other epothilones, paves the way for the generation of large combinatorial libraries of these important mols. for biol. screening.

REFERENCE COUNT:

THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1996:217326 CAPLUS

TITLE:

Enhancement of taxol production by in situ

recovery of the product.

AUTHOR(S):

Kwon, Chan; Kim, Yong Hwan; Yoo, Young Je

CORPORATE SOURCE:

Department Chemical Engineering, Seoul National

University, Seoul, 151-742, S. Korea

SOURCE:

Book of Abstracts, 211th ACS National Meeting, New Orleans, LA, March 24-28 (1996), BIOT-169. American

Chemical Society: Washington, D. C.

CODEN: 62PIAJ

DOCUMENT TYPE:

Conference; Meeting Abstract

LANGUAGE: English

AB Taxol is a promising anticancer drug which is isolated from the bark of the Pacific yew. Cell culture can be a cost-effective technol. to produce taxol, but produced taxol level in plant cell culture is very low, which is the main obstacle for com. application. In this study, enhancement of taxol production by in situ recovery of the product was investigated. When polymeric adsorbent (Amberlite XAD-4 resin) was added to the culture, the concns. of taxane compds., such as cephalomanin, deacetyl baccatin III as well as taxol increased. Using this method, taxol can be easily separated from the cultivation media as well as the production of taxol can be enhanced.

L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1994:200424 CAPLUS

DOCUMENT NUMBER: TITLE:

Method of using ion exchange media to increase

antitumor taxane yields from Taxus

brevifolia

120:200424

INVENTOR(S):

Carver, David R.; Prout, Timothy R.; Workman,

Christopher T.; Henderson, Donia L.; Hughes, Charles

L.

PATENT ASSIGNEE(S):

NaPro BioTherapeutics, Inc., USA

SOURCE:

U.S., 6 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

Engi

PATENT INFORMATION:

							APPLICATION NO.											
					· ·													
	US	5281	727	27			A 19940125			US 1992-982391					19921127			
	CA	2149	151			AA	199	40609	CA	1993	-2149	151	19931124					
	CA	2149	151			C	199	90126										
							199			1993	-US11	463		1	9931	124		
		W:	ΑU,	BB,	BG,	BR,	CA, CZ	, FI,	HU, JI	, KP	, KR,	KZ,	LK,	MG,	MN,	MW,		
							RU, SD						•	•	•	•		
							DK, ES				, IT,	LU,	MC,	NL,	PT,	SE,		
							CI, CM									·		
	ΑU	9456	788			<b>A</b> 1	199	40622	AU							124		
	AU	6802	20			B2	199	70724										
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Disclosed is a method that uses an absorption column for the cleavage and recovery of taxanes, which are not normally detected as free taxanes. The method processes a first solution that contains standard detectable taxanes [e.g. taxol (I)] and other undetectable taxane compds. to generate a second solution that contains a higher percentage of detectable standard taxane than the first solution The first step of this method is loading a column having a first opening and a second opening with an ion exchange media. The next step is placing the first solution in the first opening of the column so that the first solution passes through the ion exchange media in the column and flows to the second opening. Thus, the taxane compds: are converted to standard taxanes by an ion exchange reaction and the second solution is formed. Then the next step is collecting, from the second opening of the column, the second solution and recovering from the second solution a larger percentage of standard taxanes than was detectable in the first solution The ion exchange media of the present solns. is an ion exchange resin. The ion exchange resin can be a mixture of an anion exchange resin and a cation exchange resin The anion exchange resin is in the OH-form. The cation

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exchange resin is in the H+ form. Preferably, the ion exchange resin is alumina.

=> log y COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY 47.65	SESSION 47.86
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY -7.35	SESSION -7.35

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